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1. 1 **Patent**
   - *Document No. WO98/03341
   - *Country Code Japan
   - *Publication Date 1/29/98
   - *Language Japanese
   - No. of Pages _____ *(filled by STIC)*

2. _____ **Article**
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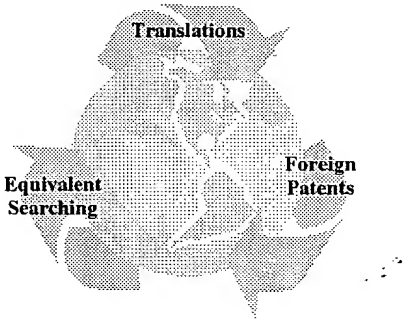

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Country: US 6338538 B1

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L3: Entry 2 of 2 File: DWPI Jan 29, 1998

DERWENT-ACC-NO: 1998-120582
DERWENT-WEEK: 200208

TITLE: Ink-jet image printer - adequately determines switching of different types of dots according to detected darkness per unit area of dots as produced by printer

INVENTOR: KAKUTANI, T; TOSHIAKI, K

PATENT-ASSIGNEE: SEIKO EPSON CORP (SHIH)

PRIORITY-DATA: 1996JP-0327845 (November 22, 1996), 1996JP-0209232 (July 18, 1996)

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PATENT-FAMILY:

	PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
☐	WO 9803341 A1	January 29, 1998	J	094	B41J002/21
☐	US 6338538 B1	January 15, 2002		000	B41J002/205
☐	EP 863019 A1	September 9, 1998	E	000	
☐	JP 10506790 X	December 8, 1998		000	
☐	US 6099105 A	August 8, 2000		000	B41J002/205
☐	JP 2001030521 A	February 6, 2001		032	B41J002/205
☐	JP 2001225488 A	August 21, 2001		039	B41J002/205

DESIGNATED-STATES: JP US AT BE CH DE DK ES FI FR GB GR IE IT LU MC NL PT SE DE FR GB

APPLICATION-DATA:

PUB-NO	APPL-DATE	APPL-NO	DESCRIPTOR
WO 9803341A1	July 17, 1997	1997WO-JP02491	
US 6338538B1	March 17, 1998	1998US-0029865	Cont of
US 6338538B1	May 1, 2000	2000US-0562669	
US 6338538B1		US 6099105	Cont of
EP 863019A1	July 17, 1997	1997EP-0930830	
EP 863019A1	July 17, 1997	1997WO-JP02491	
EP 863019A1		WO 9803341	Based on
JP 10506790X	July 17, 1997	1997WO-JP02491	
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US 6099105A	July 17, 1997	1997WO-JP02491	
US 6099105A	March 17, 1998	1998US-0029865	
US 6099105A		WO 9803341	Based on
JP2001030521A	July 17, 1997	1998JP-0506790	Div ex

JP2001030521A	July 17, 1997	2000JP-0175831	
JP2001225488A	July 17, 1997	1998JP-0506790	Div ex
JP2001225488A	July 17, 1997	2001JP-0001733	

INT-CL (IPC): B41 J 2/01; B41 J 2/045; B41 J 2/05; B41 J 2/055; B41 J 2/205; B41 J 2/21; B41 J 2/52; B41 M 5/00; H04 N 1/23; H04 N 1/405

RELATED-ACC-NO: 1998-079190

ABSTRACTED-PUB-NO: US 6099105A
BASIC-ABSTRACT:

The printer receives inputted half-tone data and first refers to a table of recording rates with dark ink. It is determined by a systematic dithering method whether dark dots are formed or not. If it is determined that they are formed, a piezoelectric element (PE) of the print head is driven to form dark dots and a result value (RV) is calculated. If it is determined that dark dots are not formed, the result value RV is 0.

Error diffusion is used to determine whether dots are formed with low darkness ink or not. The darkness error between a formed image and the original image is decreased to a minimum by the ON/OFF of light dots. Therefore, when a printer which prints by using dots whose darkness per unit area is different is used, the ON/OFF of the different types of dots are adequately determined and the quality of the printing can be improved. The presence/absence of dots of achromatic colour ink influences the formation of dots of cyan ink may be employed.

ABSTRACTED-PUB-NO: US 6338538B
EQUIVALENT-ABSTRACTS:

The printer receives inputted half-tone data and first refers to a table of recording rates with dark ink. It is determined by a systematic dithering method whether dark dots are formed or not. If it is determined that they are formed, a piezoelectric element (PE) of the print head is driven to form dark dots and a result value (RV) is calculated. If it is determined that dark dots are not formed, the result value RV is 0.

Error diffusion is used to determine whether dots are formed with low darkness ink or not. The darkness error between a formed image and the original image is decreased to a minimum by the ON/OFF of light dots. Therefore, when a printer which prints by using dots whose darkness per unit area is different is used, the ON/OFF of the different types of dots are adequately determined and the quality of the printing can be improved. The presence/absence of dots of achromatic colour ink influences the formation of dots of cyan ink may be employed.

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WO 9803341A

CHOSEN-DRAWING: Dwg.11/32

DERWENT-CLASS: P75 T01 T04

EPI-CODES: T01-J08A; T01-J10B; T04-G02A; T04-G07; T04-G10A;